



Flying B29

Northwest Environmental Solutions, Inc.

Fax Cover Sheet

To: Krystal Rodriguez / Arthur Buchan

May 12, 2011

Fax No. 509-575-2809 and 425-649-7161

From: Kevin Wilkerson

Site: Flying B #27 - Ellensburg, WA. Cathodic Protection

- 1) Signed test form
- 2) New tap settings from 8/2010 - were not noted on the inspection form.
- 3) Kevin Wilkerson adjusted after the initial inspection by Mr. Arthur Buchan in June of 2010
- 4) Test piping on Unleaded, note the Super tank is impressed with steel lines, verified by continuity test and CP test. There are direct burial cables around the 4000 gallon super unleaded tank, ISIS data base states FRP lines and Coated Steel. The Galvanic system is the split compartment as noted on ISIS. Sorry for the missing data from prior test.

Pages: 5

P. 5 - REVISED

ADDED PRODUCT LINE INFORMATION @ MAP.

RECEIVED

MAY 13 2011

DEPARTMENT OF ECOLOGY - CENTRAL REGIONAL OFFICE

Office: 406 A 112th Street E. Tacoma, WA. 98445
Mailing Address: P.O. Box 1583 Sumner, WA. 98390
253-241-6213 (P) 253-537-8378 (F) nesinc@hotmail.com (E)



DEPARTMENT OF
ECOLOGY
State of Washington

**Underground Storage Tank
Impressed Current Cathodic Protection
Evaluation Checklist**

| I. UST Facility | | II. UST Owner | |
|---|--|--|----------------------|
| Facility Compliance Tag #: 1363 | | Name: Shop Stop LLC | |
| UBI: 602879425 | | Address: 1611 S. Canyon | |
| | | City: Ellensburg | State: WA ZIP: 98926 |
| Facility Name: Flying B #29 | | Phone: 509-925-9270 | |
| Address: 1611 S. Canyon | | III. CP Tester | |
| City: Ellensburg | | Tester's Name: Kevin Wilkerson | |
| County: Kittitas | | Company Name: NES, Inc | |
| State: WA | | Address: POB 1583 | |
| ZIP: 98926 | | City: Sumner | State: WA ZIP: 98390 |
| Phone: 509-925-9270 | | Phone: 253-241-6213 | |
| | | Certification Type: ICC | |
| | | Certification Number: 5012674 | Exp: 01/12 |
| IV. Cathodic Protection Tester's Evaluation | | | |
| <input checked="" type="checkbox"/> Pass | I certify that the criteria used to evaluate whether cathodic protection is adequate, as required by the Washington State Underground Storage Tank Regulations, were in accordance with a code of practice developed by a nationally recognized association (e.g. NACE). | | |
| <input type="checkbox"/> Fail | | | |
| CP Tester's Signature: | | Date CP Survey Performed: 5/11/11 | |
| V. Retrofit or Repair Design | | | |
| All retrofitting or repairs to CP systems shall be designed by a Corrosion Expert. I certify that I am a Corrosion Expert qualified to engage in the practice of corrosion control on buried or submerged metal piping systems and metal tanks. I have attached copies of the retrofit/repair design and of the Underground Storage Tank Retrofit and Repair Checklist. | | | |
| Corrosion Expert's Name: | | National Recognized Organization: | |
| Company Name: | | Certification Number: | |
| Corrosion Expert's Signature: | | Date: | |
| VI. Criteria Applicable to Evaluation | | | |
| Continuity Test | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL | USTs must show continuity using an approved testing method | |
| Neg. 850 Instant Off | X <input type="checkbox"/> Pass <input type="checkbox"/> Fail Tanks | A negative polarized potential of at least 850 mV relative to a saturated copper-copper sulfate reference electrode (Instant Off Potential). | |
| | X <input type="checkbox"/> Pass <input type="checkbox"/> Fail Piping | | |
| 100 mV Pol. | X 3 <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail Tanks | A minimum of 100 mV of cathodic polarization between the structure surface and a stable reference electrode contacting the electrolyte. | |
| | X 2 <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail Piping | | |
| VII. Action Required as a Result of this Evaluation | | | |
| <input checked="" type="checkbox"/> NONE | | Cathodic Protection is adequate. No further action is necessary at this time. | |
| <input type="checkbox"/> RETEST | | Cathodic Protection may not be adequate. Retest is necessary. | |
| <input type="checkbox"/> RETROFIT/REPAIR and RETEST | | Cathodic Protection is not adequate. Retrofitting or Repairing is necessary. | |
| Remarks (Include type of gear; Ex: Multi-meter): Fluke 73 III and McMiller - Test tank Unleaded, Diesel and Super. Test product lines: Unleaded and Super | | | |

| VIII. Impressed Current Rectifier Data | | | |
|--|----------------------------------|-------------------------|---------------|
| Rectifier Manufacturer | Universal | Rectifier Model Number | SSP |
| Rated DC Output | <u>48</u> Volts <u>8</u> Amps | Rectifier Serial Number | <u>881571</u> |

Rectifier "As Found" Data

| | | | |
|--------------------------|-------------------------|---|-------------------|
| (*) AC Input Voltage | _____ Volts | DC Voltage on Panel Meter | <u>46</u> Volts |
| (*) AC Step-Down Voltage | _____ Volts | DC Voltage on Rectifier Output Terminal | <u>46.6</u> Volts |
| Tap Settings | <u>C-4</u> <u>F-1</u> | DC Amps on Panel Meter | <u>1</u> Amps |
| (*) Cycles | Secondary Taps _____ Hz | (*) Shunt Rating | <u>50/10</u> |
| | DC Output _____ Hz | (*) Shunt Measurement | _____ mV |
| | | DC Amps from Shunt Reading | <u>5</u> Amps |

Rectifier "As Left" Data

| | | | |
|--------------------------|-------------------------|---|-------------------|
| (*) AC Input Voltage | _____ Volts | DC Voltage on Panel Meter | <u>46</u> Volts |
| (*) AC Step-Down Voltage | _____ Volts | DC Voltage on Rectifier Output Terminal | <u>46.6</u> Volts |
| Tap Settings | <u>C-4</u> <u>F-1</u> | DC Amps on Panel Meter | <u>1</u> Amps |
| (*) Cycles | Secondary Taps _____ Hz | (*) Shunt Rating | <u>50/10</u> |
| | DC Output _____ Hz | (*) Shunt Measurement | _____ mV |
| | | DC Amps from Shunt Reading | <u>5</u> Amps |

IX. Individual Anode Data

Complete only if Anode Measurements can be taken independently

"As Found"

| Anode # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---------|---|---|---|---|---|---|---|---|---|----|
| Volts | | | | | | | | | | |
| Amps | | | | | | | | | | |

"As Left"

| Anode # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---------|---|---|---|---|---|---|---|---|---|----|
| Volts | | | | | | | | | | |
| Amps | | | | | | | | | | |

X. Remarks (Describe any modifications that were made to the CP System)

Remarks/Other:

| |
|----------------|
| Remarks/Other: |
|----------------|

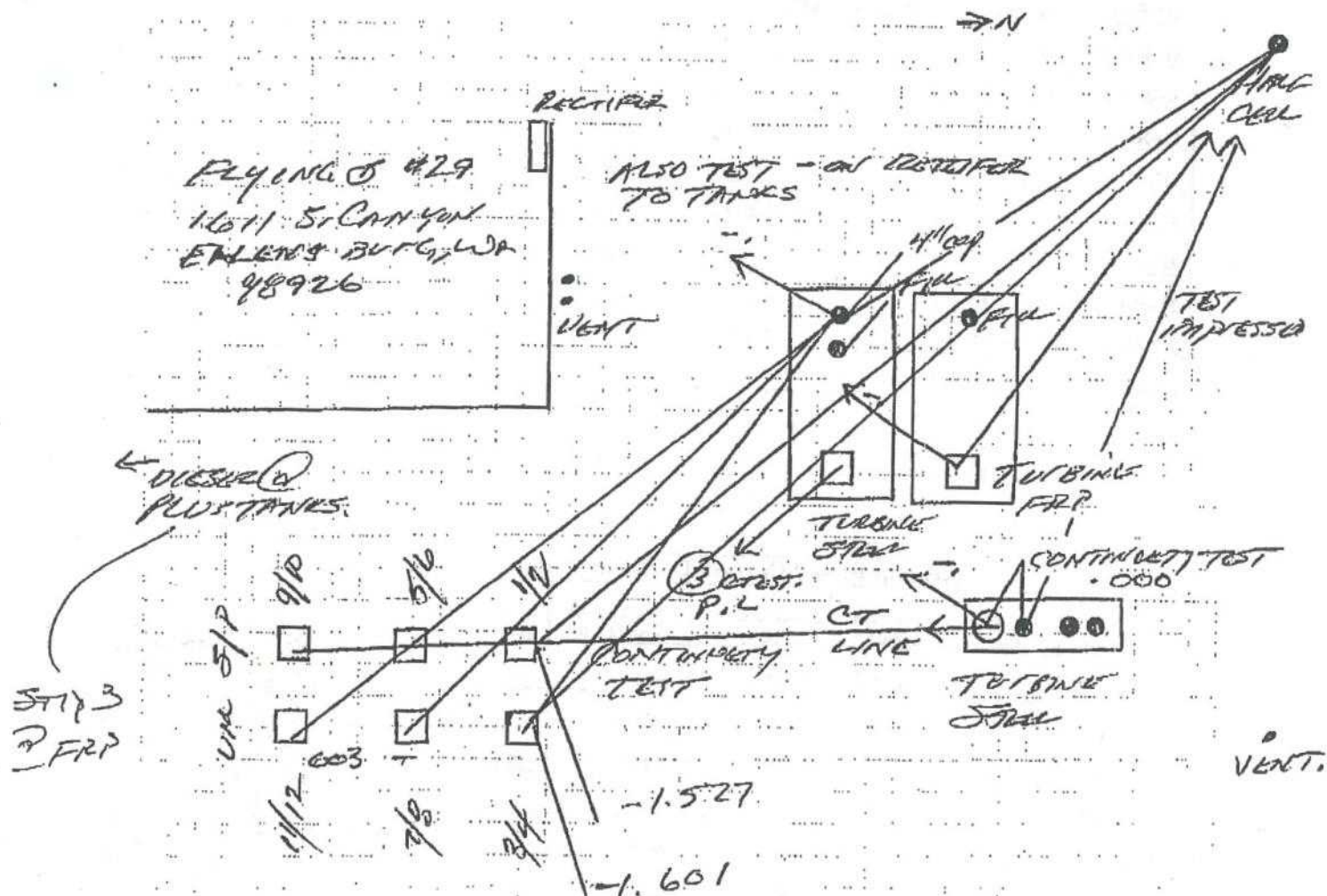
XI. Impressed Current Cathodic Protection System Continuity Survey

| Structure A" | Structure "B" | Point "A" to Point "B" or Fixed Cell Location >30' | Structure A" Fixed Voltage -30' | Structure "B" Fixed Voltage ->30' | Point to Point or Fixed Voltage Difference | Pass or Fail? | Method and Standard Used (e.g. RP-0285, R051) |
|--------------|---------------|--|---------------------------------|-----------------------------------|--|---|---|
| 1D-Riser | Turbine | NW Corner (30) | 1.568 | 1.566 | 002 | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | Fixed R051 |
| 2U-Riser | Turbine | " | 1.567 | 1.566 | 001 | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | " |
| 3S-3" Cap | Turbine | " | 1.569 | 1.569 | 000 | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | " |
| 1D-Riser | Negative | " | 1.568 | 1.568 | 000 | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | " |
| 2U-Riser | Negative | " | 1.567 | 1.566 | 001 | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | " |
| 3S-Riser | Negative | " | 1.569 | 1.569 | 000 | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | " |
| 2U-Riser | N-Disp PL | " | 1.567 | 1.564 | 003 | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | " |
| 2U-Riser | C-Disp PL | " | 1.567 | 1.563 | 004 | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | " |
| 2U-Riser | S-Disp PL | " | 1.567 | 1.567 | 000 | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | " |
| 3S-Riser | N-Disp PL | " | 1.569 | 1.569 | 000 | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | " |
| 3S-Riser | C-Disp PL | " | 1.569 | 1.569 | 000 | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | " |
| 3S-Riser | S-Disp PL | " | 1.569 | 1.568 | 001 | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | Fixed R051 |
| | | | | | | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | |
| | | | | | | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | |

XII. Impressed Current Cathodic Protection System Survey

[illegible]

XIII. UST Site Plan. Diagram the UST System, including tanks, piping, and dispenser locations, approximate scale, and any other notable structures/physical features. Indicate north with arrow. Include the cathodic protection test locations used during this testing. The test points must be easily identifiable, so that testing can be reproduced and your results verified.



= TEST CT.
 TO NET
 ON RECTIF

WA: 41363
SITE # 10589
FACILITY SITE ID #386

NT5.

NES, INC

KEVIN WICKERSON

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